

Emission Inventory
High Desert Milk
Burley, Idaho

Pollutant	Milk Dryer P101		Fluid-bed P102		Powder Storage P103		Boiler #1 P104		Boiler #2 P105		Emergency Generator ⁽¹⁾		Total
	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	
PM ₁₀	10.6	46.2	1.1	4.7	0.1	0.5	0.5	2.0	0.5	2.0	0.2	0.1	55.6
SO ₂	0.019	0.1					0.0	0.2	0.0	0.2	0.3	0.1	0.5
NO _x ⁽²⁾	1.5	6.4					6.2	27.0	6.2	27.0	8.0	2.0	62.3
CO	11.9	52.2					5.2	22.6	5.2	22.6	4.3	1.1	98.6
VOC	0.18	0.8					0.3	1.5	0.3	1.5			3.7
Lead	1.6E-05	0.0					0.0	0.0	0.0	0.0			0.0
Arsenic	6.4E-06	0.0					1.2E-05	0.0	1.2E-05	0.0			0.0
Cadmium	3.5E-05	0.0					6.8E-05	0.0	6.8E-05	0.0			0.0
Formaldehyde	2.4E-03	0.0					4.6E-03	0.0	4.6E-03	0.0			0.0
Nickel	6.7E-05	0.0					1.3E-04	0.0	1.3E-04	0.0			0.0

(Revised 7-2-07)

- Note:** (1) The emission rate for SO_x from the emergency generator was calculated using an emission factor from AP-42 chapter 3.4 "Large Stationary Diesel and All Stationary Dual-Fuel Engines" assuming a fuel sulfur content of 500 ppm (0.05%). Emission rates for all other pollutants based on manufacturer's specifications for QSX15-G9 Nonroad 2 engine with faceplate rating of 755 HP. Emergency generator ton/yr values estimated based on 500 hours of operation.
- (2) NO_x emissions for the emergency generator include oxides of nitrogen and total unburned hydrocarbons.